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(54) **ENCODER FOR DETERMINING QUANTIZATION PARAMETER ADAPTIVELY AND APPLICATION PROCESSOR HAVING THE SAME**

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(57) **ABSTRACT**

An encoder comprises a rate controller and a quantizer. The rate controller may be configured to compare an activity of a current block with an average activity of a previous frame; determine a quantization parameter offset according to the comparison between the activity of the current block and the average activity of the previous frame. Lastly, the rate controller may be configured to determine a quantization parameter using the quantization parameter offset. The quantizer in the encoder may be configured to quantize the current block using the quantization parameter.

